PLUMBING GENERAL NOTES

THE FOLLOWING NOTES APPLY TO ALL PLUMBING DRAWINGS. ADDITIONAL PLUMBING NOTES MAY BE INDICATED ON EACH PLUMBING DRAWING. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. INSTALL ALL WASTE LINE CLEANOUTS IN ACCORDANCE WITH

—----FP FIRE PROTECTION PIPING

STORM

- CHAPTER SEVEN OF THE UNIFORM PLUMBING CODE. ALL SANITARY SEWER PIPING BELOW SLAB SHALL BE INSTALLED AT A MINIMUM OF 1/4" PER FT SLOPE UNLESS APPROVAL IS PROVIDED BY THE "ADMINISTRATIVE AUTHORITY" IN WRITING FOR A SHALLOWER SLOPE. IN NO CASES SHALL SEWER PIPING BE INSTALLED AT LESS THAN 1/8" PER FT SLOPE. IN NO CASES WILL PIPING SMALLER THAN 4" BE INSTALLED AT SLOPES SHALLOWER THAN 1/4" PER FOOT. PIPING INSTALLED AT 1/8"/FT SHALL BE RESIZED PER CHAPTER 7 OF THE UNIFORM PLUMBING CODE AND SUPPORTING CALCULATION SUBMITTED
- TO ENGINEER FOR REVIEW. PROVIDE STOPS PRIOR TO ALL PLUMBING EQUIPMENT. THIS SHALL ALSO INCLUDE PROVIDING INTEGRAL STOPS ON ALL SHOWER AND TUB/SHOWER VALVES (WHETHER SPECIFIED OR NOT). PROVIDE WASTE TRAPS AT ALL DIRECT CONNECTED EQUIPMENT IN ACCORDANCE WITH CODE AND THE SPECIFICATIONS.
- INSULATE P-TRAPS EXPOSED IN UNHEATED SPACES. SEE ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS AND PLUMBING FIXTURE HEIGHTS. AS WELL AS ROUGH-IN DIMENSIONS AND OTHER DETAILS. ALSO SEE ARCHITECTURAL DRAWINGS FOR FINISH REQUIREMENTS OF ALL PLUMBING FIXTURES INCLUDING REQUIREMENTS FOR FLUSH LEVER LOCATION AT ADA ADA COMPLIANT TOILETS AND VALVE LOCATIONS OF ADA SHOWERS. REPORT ALL DISCREPANCIES
- TO ENGINEER PRIOR TO ANY WORK. PLUMBING DRAWINGS SHOW APPROXIMATE LOCATIONS OF PLUMBING FIXTURES. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS. COORDINATE FLOOR DRAINS FOR MECHANICAL SPACES WITH MECHANICAL EQUIPMENT BEING
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING CONCRETE EQUIPMENT PADS, FLASHING DETAILS, ETC.
- REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL ELECTRICAL CHARACTERISTICS OF PLUMBING EQUIPMENT (VOLTAGES, ETC). ELECTRICAL CHARACTERISTICS OF LISTED EQUIPMENT SHALL BE VERIFIED BY CONTRACTOR DURING SUBMITIAL PROCESS. ANY ELECTRICAL CHARACTERISTICS THAT DEVIATE FROM THOSE LISTED SHALL BE IDENTIFIED BY THE CONTRACTOR, SUBMITTED TO THE ENGINEER FOR APPROVAL AND COORDINATED WITH DIVISION 26 ELECTRRICAL PRIOR TO INSTALLATION OF EQUIPMENT AS REQUIRED TO
- PROPERLY SERVE EQUIPMENT. ELECTRICAL CHARACTERISTICS OF LISTED EQUIPMENT SHALL BE VERIFIED BY CONTRACTOR DURING SUBMITIAL PROCESS. ANY ELECTRICAL CHARACTERISTICS THAT DEVIATE FROM THOSE LISTED SHALL BE IDENTIFIED BY THE CONTRACTOR, SUBMITTED TO THE ENGINEER FOR APPROVAL AND COORDINATED WITH DIVISION 26 ELECTRRICAL PRIOR TO INSTALLATION OF EQUIPMENT AS REQUIRED TO PROPERLY
- SERVE EQUIPMENT. PROVIDE PLUMBING ANCHORAGE AND EXPANSION EVERY 100'
- PIPE LENGTH PER CODE. ACCESS PANELS ARE REQUIRED AT ALL CONCEALED VALVES AND EQUIPMENT. COORDINATE LOCATION AND SIZE WITH
- ARCHITECT. STUB OUT TO SITE SERVICES 5' OUTSIDE BUILDING FOUNDATION. PIPE SIZE, FIXTURE UNITS, AREA DRAINED, INVERT ELEVATION, SIZES, AND SQUARE FOOTAGES AS INDICATED. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
- INSULATE PIPING PER WSEC C404.6 AND PER DIVISION 22 SPECIFICATIONS (WHICHEVER IS GREATER). GENERALLY DUCTWORK PLANNED TO BE TIGHT TO STRUCTURE WITH PIPING BELOW DUCTWORK AND BETWEEN LIGHT
- FIXTURES. ADJUST AS NECESSARY. PIPING INSTALLED ADJACENT TO ELECTRICAL CABLE TRAYS SHALL ALLOW MINIMUM ACCESS OF 6" IF RUNNING PARALLEL AND ABOVE CABLE TRAYS, ALLOW 18" TO THE SIDE OF CABLE
- COORDINATE LOCATIONS OF PLUMBING EQUIPMENT TO PROVIDE CLEARANCES OVER LIGHTING FIXTURES FOR REMOVAL AND SERVICE ACCESS DUE TO EQUIPMENT
- MAINTENANCE. REFER TO PIPING DIAGRAMS AND DETAILS FOR REQUIRED FITTINGS, VALVES, ETC. FLOOR PLANS AND SECTIONS INDICATE EQUIPMENT LOCATIONS AND GENERAL PIPE ROUTING ONLY. DO NOT CORE DRILL OR DRILL THROUGH BEAMS, COLUMNS.
- AND SHEAR WALLS, UNLESS INDICATED ON STRUCTURAL DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER. PIPES INDICATED WITHOUT DIMENSIONS SHALL BE SIZED PER PRECEDING UPSTREAM PIPE SECTIONS. WHERE PIPE SIZES ARE NOT SHOWN ON DRAWINGS, SIZE PIPING PER THE
- UNIFORM PLUMBING CODE. DRAWINGS ARE SCHEMATIC IN SOME AREAS AND MAY NOT SHOW PIPING OFFSETS WHICH MAY BE REQUIRED. ALL WATER PIPING IN UNHEATED SPACES SHALL BE HEAT TRACED AND INSULATED.
- PRIOR TO SUBMITTING ALL PLUMBING FIXTURES THE CONTRACTOR SHALL VERIFY COMPATIBILITY OF THE SPECIFIED FIXTURE WITH THE SIZES OF FINISH CABINETRY AS IDENTIFIED IN GENERAL CONTRACTOR'S SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN THE SIZE OF THE FIXTURES SPECIFIED AND THE FINISH CABINETRY SIZES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING
- BEFORE SUBMITIAL. PLUMBING VENTS SHALL TERMINATE MINIMUM 10' FROM FRESH AIR INTAKES PER CODE.
- LABEL ALL PIPING SYSTEMS PER THE IMC AND UPC. SUPPORT AND BRACE PIPING SYSTEMS IN ACCORDANCE WITH UPC SECTION 314 AND AS REQUIRED IN THE SPECIFICATIONS.
- TEST HYDRONIC PIPING PER IMC 1208. ALL MATERIALS IN CONTACT WITH PIPING SYSTEMS SHALL BE COMPATIBLE FOR USE WITH AND FOR CONTACT WITH THE PIPING MATERIAL CONTRACTORS AND TRADES SHALL VERIFY COMPATIBILITY OF THEIR PRODUCTS WITH THE PIPING SYSTEMS. THIS INCLUDES, BUT IS NOT LIMITTED TO, FIRE STOPPING SEALANTS, FIRE STOPPING COLLARS, VIBRATION ISLOATION ELEMENTS, THERMAL INSULATION, EXPANSION
- JOINTS AND ANY MATERIAL IN CONTACT WITH PIPES. ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE (CISPI) AND BE LISTED BY NSF INTERNATIONAL. PIPE BURIAL METHODS FOR BELOW GRADE PIPING SHALL
- COMPLY WITH MFR INSTALLATION INSTRUCTIONS, ASTM D 2321 AND ASTM F1668. FAILURE TO FOLLOW THESE REQUIREMENTS CAN LEAD TO PIPE FAILURE.
- ALL ITEMS IN CONTACT WITH POTABLE WATER SHALL COMPLY WITH THE NATIONAL "REDUCTION OF LEAD IN DRINKING WATER ACT" S.3874.
- INSULATE ANY INTERIOR STORM DRAINS THAT ROUTE THROUGH CONDITIONED SPACES. PROVIDE SWING JOINTS TO RAINWATER LEADER
- DOWNCOMERS AS THEY PENETRATE ROOFS OVER CONDITIONED SPACES.

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	LINE	E TVDES				
				COLD WATER PIPING	HW	
HWRI HOT WATER RISER HOT WATER CIRCULATION PIPING NON-POTABLE WATER HOT WATER RISER HWS HEATING WATER SUPPLY IE INVERT ELEVATION INDIRECT WASTE JSK JANITOR SINK LAV LAVATORY					HWR	HEATING WATER RETURN
HWS HEATING WATER SUPPLY IE INVERT ELEVATION INDIRECT WASTE INVERT SUPPLY IE INVERT ELEVATION INDIRECT WASTE JSK JANITOR SINK LAV LAVATORY					HWRI	HOT WATER RISER
PIPING NON-POTABLE WATER W EXISTING WASTE PIPING WASTE PIPING WASTE PIPING WASTE PIPING LAV LAVATORY			140F	,	HWS	HEATING WATER SUPPLY
EXISTING WASTE PIPING WASTE PIPING WASTE PIPING WASTE PIPING INDIRECT WASTE JSK JANITOR SINK LAV LAVATORY				PIPING	ΙE	INVERT ELEVATION
WASTE PIPING LAVATORY			— - –NPW		IW	INDIRECT WASTE
E/W/TOTA			— —EW		JSK	JANITOR SINK
- — — — → VENT PIPING LPG LIQUEFIED PETROLEUM GAS			W	WASTE PIPING		
			<u> </u>	VENT PIPING		
s STORM MPG MEDIUM PRESSURE GAS			s	STORM		
——————————————————————————————————————			HYDS	HYDRONIC SUPPLY		
· · · · · · · · · · · · · · · · · · ·			——HYDR	HYDRONIC RETURN		
			COND	CONDENSATE PIPING		
UNDER HYDRONIC RETURN NP NON-POTABLE						
OHP OUTDOOR HEAT PLIMP			COND	CUNDENSATE PIPING	PG	PRESSURE GAUGE

PG

PSI

POC

RCW

RPBP

RR

SH

SK

SS

SSV

SW

TP

UR

VS

VTR

WC

WCO

WM

WS

TYP

PRESSURE GAUGE

RESTROOM

SOIL STACK

SANITARY WASTE

TRAP PRIMER

VENT STACK

VENT THRU ROOF

WATER CLOSET

WASTE STACK

WATER CLEAN OUT

WASHING MACHINE

WATER SUPPLY FIXTRUE UNITS

TYPICAL

URINAL

WASTE

VENT

STORM

SINK

SHOWER

POINT OF CONNECTION

POUNDS PER SQUARE INCH

SERVICE SHUT-OFF VALVE

RECLAIMED/NON-POTABLE COLD WATER

REDUCED PRESSURE BACKFLOW PREVENTER

LAVATORY MIXING VALVES

PER THE 2015 UPC 407.3 WATER DELIVERED TO PUBLIC-USE LAVATORIES SHALL BE LIMITED TO A MAXIMUM TEMPERATURE OF 120°F BY A DEVICE THAT IS IN ACCORDANCE WITH ASSE 1070 OR CSA B125.3 THE WATER HEATER CONTROL IS NOT CONSIDERED A CONTROL MEETING THIS

PUBLIC-USE LAVATORIES SHALL BE DEFINED AS A HAND SINK ADJACENT TO WATER CLOSETS OR URINALS IN NON-LOCKING BATHROOMS INTENDED FOR AN OCCUPANCY OF MORE THAN ONE PERSON AT A TIME. PLUMBING CONTRACTOR TO PROVIDE MIXING VALVES FOR PUBLIC LAVATORIES PER FIXTURE SCHEDULE.

PIPING MATERIALS -SANITARY DRAINAGE

CONDENSATE PIPING SHALL BE TYPE "L" COPPER WITH WROT COPPER FITTINGS OR SCH 40 PVC.

SANITARY DRAINAGE PIPING SHALL BE "NO-HUB" CAST IRON PIPING IN ALL RESIDENTIAL AREAS INCLUDING VERTICAL WASTE STACKS AND ALL DWELLING UNITS WASTE PIPING. PLASTIC PIPING IS TO BE USED IN PARKING GARAGES. PIPING IN RATED PLENUMS TO BE CAST IRON.

VENT PIPING SHALL BE CAST IRON WHEN INSTALLED IN RATED PLENUMS. IN ALL AREAS OTHER THAN FIRE RATED PLENUMS, VENT PIPING SHALL BE CAST IRON PIPING TO BE USED IN ACOUSTICALLY SENSITIVE AREAS

PIPING MATERIALS - WATER

ALL WATER PIPING 2-1/2" THROUGH 6" TO BE MATERIAL APPROVED BY UPC. ALL WATER PIPING 2" AND SMALLER TO BE PEX TUBING WITH PEX FITTINGS. PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SIZES CALLED OUT ON PLANS. MAXIMUM WATER VELOCITIES WITHIN PIPING SHALL BE AS FOLLOWS: STAINLESS TUBE AND FITTING SYSTEMS - 10 FT/SEC ON COLD WATER PIPING, 5 FT/SEC ON HOT WATER PIPING, 3 FT/SEC ON HOT WATER RECIRC PIPING COPPER TUBE AND FITTING SYSTEMS - 8 FT/SEC ON COLD WATER PIPING, 5 FT/SEC ON HOT WATER PIPING, 3 FT/SEC ON HOT WATER RECIRC PIPING PEX TUBE AND FITTING SYSTEMS - 10 FT/SEC ON COLD WATER PIPING, 8 FT/SEC ON HOT WATER PIPING, 2 FT/SEC ON HOT WATER RECIRC PIPING MAX ALLOWABLE PRESSURE DROP FROM FRICTION FOR ENTIRE PIPING AND FITTINGS IS 30 PSI

PROVIDE DIELECTRIC UNIONS WHERE GALVANICALLY DISSIMILAR METALS

ROOF DRAINAGE CALCS

ROOF DRAINAGE CALCULATIONS ARE PER THE 2015 UPC TABLE 1101.8 AND 1101.12 FOR HORIZONTAL AND VERTICAL RAINWATER PIPING. RAINFALL DATA WAS PROVIDED BY 2015 UPC APPENDIX D, TABLE D101.1 = 1 INCH PER HOUR

SECONDARY ROOF DRAINAGE SYSTEM SHALL BE PROVIDED. THE SECONDARY ROOF DRAINAGE SYSTEM MAY CONNECT TO THE PRIMARY SYSTEM INTO ANY VERTICAL SECTION DOWNSTREAM OF ANY HORIZONTAL OFFSET OF THE PRIMARY SYSTEM. THE COMBINED SECONDARY AND PRIMARY ROOF DRAINAGE SYSTEMS SHALL BE SIZED IN ACCORDANCE WITH THE 2015 UPC SECTION 1101.12.2.2.2 FOR DOUBLE

THE RAINFALL RATE FOR THE LOCAL AREA. ALL STORM WATER PIPING TO RUN AT 1/8" PER FOOT SLOPE.

ARCHITECTURE INTERIORS PLANNING VIZLAB 275 FIFTH STREET, SUITE 100 BREMERTON, WA 98337 360-377-8773 NOMINAL PIPE OR TUBE SIZE (inches) RFMARCH.COM 4 TO < 8 <u>></u>8

5.0

4.5

3.0

2.0

1.5

1.0

1.5

2015 WSEC TABLE C403.2.9

MINIMUM PIPE INSULATION THICKNESS (THICKNESS IN INCHES)

3.0

2.5

1.5

1.0

0.5

0.5

A. FOR PIPING SMALLER THAN 1-1/2 INCH (38 MM) AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF

B. FOR INSULATION OUTSIDE THE STATED CONDUCTIVITY RANGE, THE MINIMUM THICKNESS (T) SHALL BE DETERMINED AS

INSULATION THICKNESS LISTED IN THE TABLE FOR APPLICABLE FLUID TEMPERATURE AND PIPE SIZE, K = CONDUCTIVITY OF

FOLLOWS: T = R{(1 + T/R)K/K - 1} WHERE: T = MINIMUM INSULATION THICKNESS, R = ACTUAL OUTSIDE RADIUS OF PIPE, T =

THESE THICKNESSES BY 1 INCH (25 MM) SHALL BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B) BUT

ALTERNATE MATERIAL AT MEAN RATING TEMPERATURE INDICATED FOR THE APPLICABLE FLUID TEMPERATURE (BTU X IN/H X FT2 X

°F) AND K = THE UPEER VALUE OF THE CONDUCTIVITY RANGE LISTED IN THE TABLE FOR THE APPLICABLE FLUID TEMPERATURE.

C. FOR DIRECT-BURIED HEATING AND HOT WATER SYSTEM PIPING, REDUCTION OF THESE THICKNESSES BY 1-1/2 INCHES SHALL

BE PERMITTED (BEFORE THICKNESS ADJUSTMENT REQUIRED IN FOOTNOTE B BUT NOT TO THICKNESSES LESS THAN 1 INCH.)

1 TO

< 1-1/2

5.0

4.0

2.5

1.5

1.0

0.5

1.0

1-1/2

TO < 4

5.0

4.5

2.5

2.0

1.5

1.0

1.0

5.0

4.5

3.0

2.0

1.5

1.0

1.0

MEAN RATING

TEMPERATURE, º

250

200

150

125

100

75

75

INSULATION CONDUCTIVITY

CONDUCTIVITY

Btu•in/(h•ft²•°F)^b

0.32 - 0.34

0.29 - 0.32

0.27 - 0.30

0.25 - 0.29

0.21 - 0.28

0.21 - 0.27

0.20 - 0.26

NOT TO A THICKNESS LESS THAN 1 INCH (25 MM).

FLUID OPERATING

TEMPERATURE

RANGE AND

USAGE (°F)

>350

251-350

201-250

141-200

105-140

40-60

<40

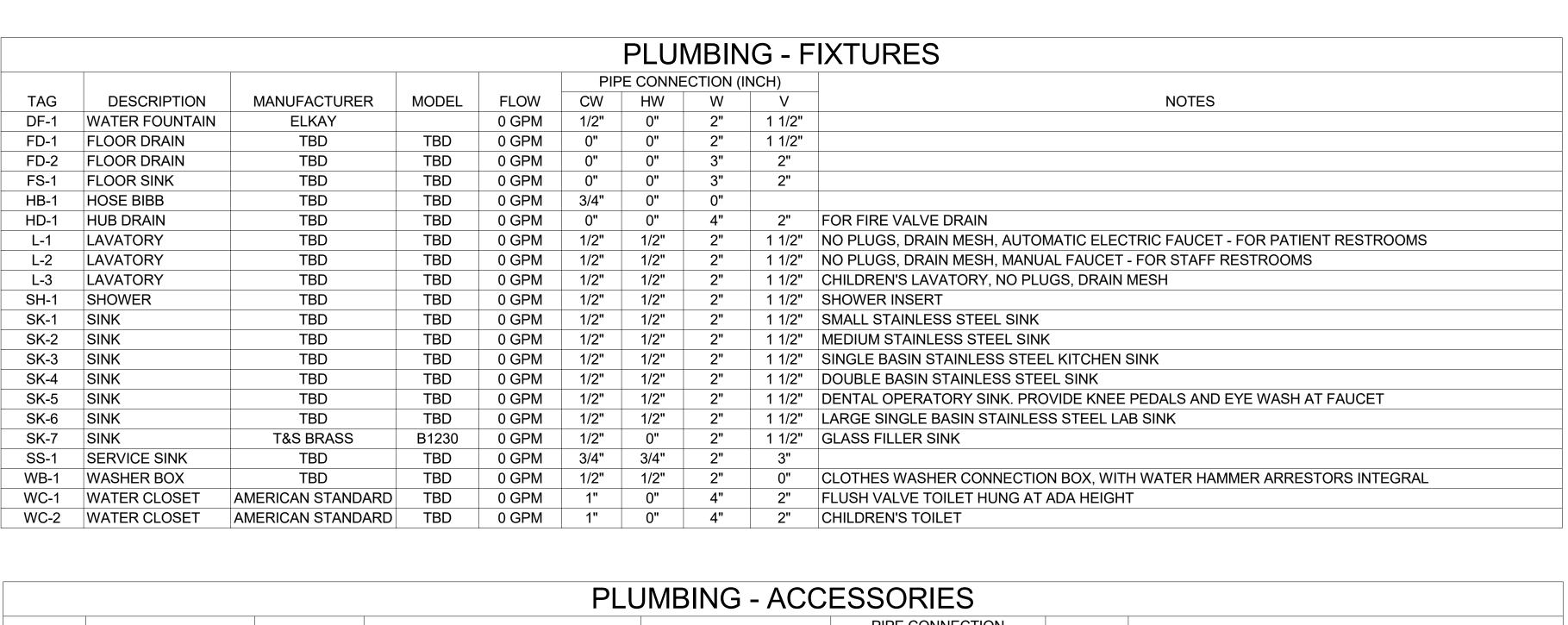
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PLUMBING GENERAL



	PLUMBING - ACCESSORIES										
					PIPE CONI DIAMETEI						
TAG	MANUFACTURER	MODEL	DESCRIPTION	SERVICE	CW	HW	W	V	VOLUME	NOTES	
EXP-1	TBD	TBD	EXPAINSION TANK	DOMESTIC WATER	0.000	0.000	0.000	0.000	2.1 gal		
RPBP-1	TBD	TBD	PRIMARY BACKFLOW PREVENTOR	DOMESTIC WATER	2.500						
RPBP-2	TBD	TBD	SECONDARY BACKFLOW PREVENTOR	DOMESTIC WATER	2.000						
TMV-1	TBD	TBD	TEMPERATURE MIXING VALVE	DOMESTIC WATER	0.000	0.000			0.0 gal		
TMV-2	TBD	TBD	TEMPERATURE MIXING VALVE	DOMESTIC WATER	0.000	0.000			0.0 gal		
TMV-3	TBD	TBD	TEMPERATURE MIXING VALVE	DOMESTIC WATER	0.000	0.000			0.0 gal		

	PLUMBING - ELECTRIC WATER HEATER											
				DIMENSIO	NS (INCH)		PIPE CONNEC	TIONS (INCH)		VOLTS/PH	CURRENT	
TAG	MANUFACTURER	MODEL	VOLUME	RADIUS	HEIGHT	WEIGHT	CW	HW	POWER	ASE	DRAW	NOTES
EWH-1	RHEEM	PROPH80 T2 RH350 DCB	80 gal	0' - 0"	0' - 0"	0 lb	0"	0"	5,000 W			INTEGRATED HEAT PUMP WATER HEATER
EWH-2	RHEEM	PROPH80 T2 RH350 DCB	80 gal	0' - 0"	0' - 0"	0 lb	0"	0"	5,000 W			INTEGRATED HEAT PUMP WATER HEATER
EWH-3	TBD	TBD	6 gal	0' - 0"	0' - 0"	0 lb	0"	0"	0 W			LOWBOY ELECTRIC WATER HEATER MOUNTED ABOVE THE CEILING

	PLUMBING - PUMPS									
TAG	MANUFACTURER	MODEL	FLOW (GPM)	HEAD (FT)	VOLT/PHASE	CURRENT DRAW (AMPS)	WEIGHT (LBS)	PIPE CONNECTION (INCH)	NOTES	
PMP-1	TBD	TBD	2 GPM	0.0 ftH2O		,	0.00 lbf	, ,	HOT WATER CIRCULATION PUMP	
PMP-2	TBD	TBD	1 GPM	0.0 ftH2O			0.00 lbf	0"	HOT WATER CIRCULATION PUMP	

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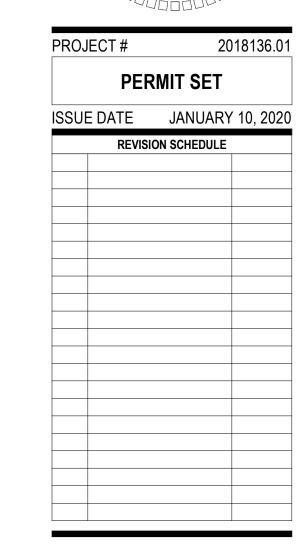
PLUMBING SCHEDULE

P0.02



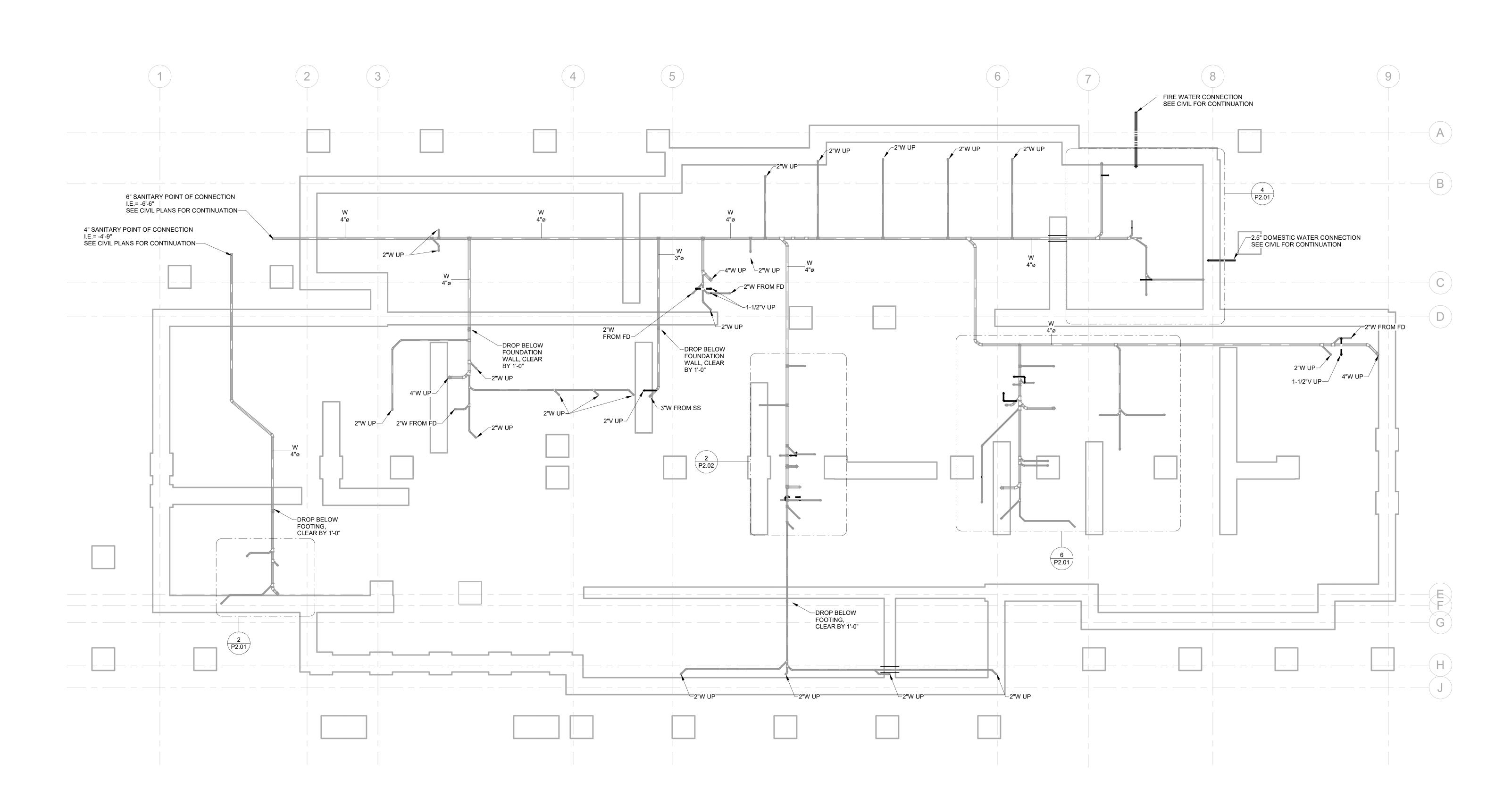
ESTOWN S'KLALLAM TRIE HEALING CAMPUS





PLUMBING FOUNDATION PLAN

P1.00

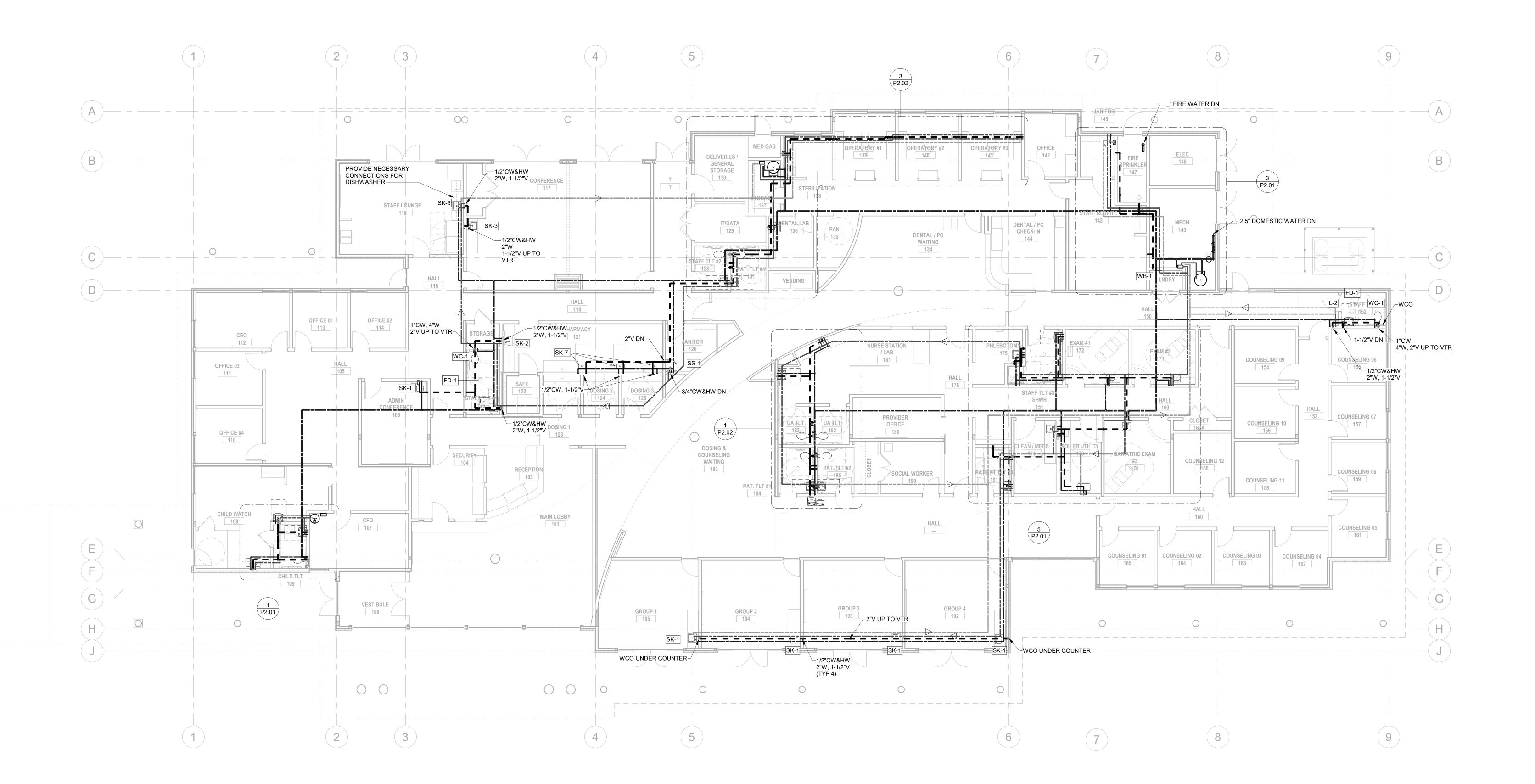




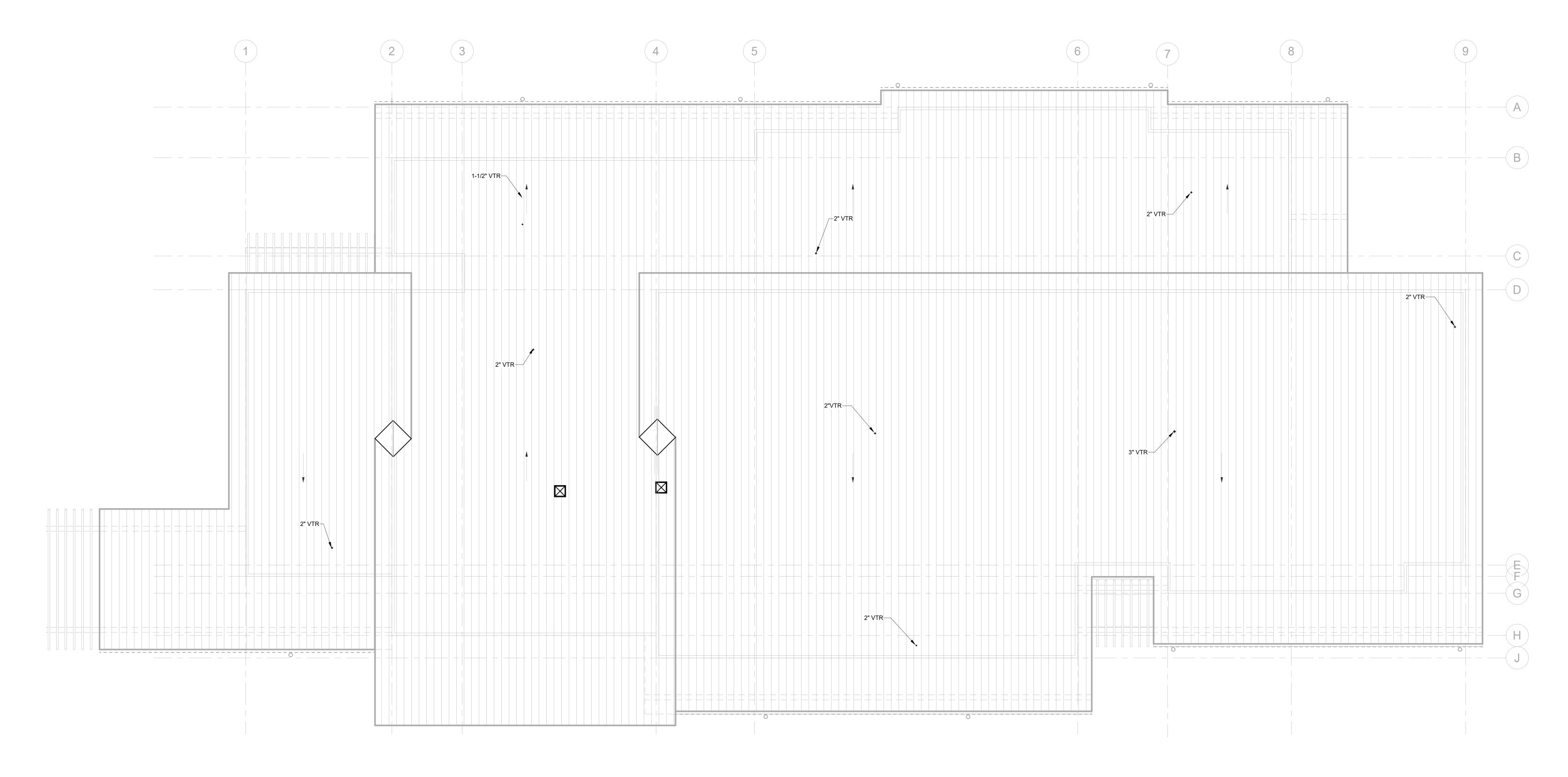
PLUMBING LEVEL 1 FLOOR PLAN

SHEET#
P1.01

1 PLUMBING - LEVEL 1 FLOOR PLAN
1/8" = 1'-0"



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MESTOWN S'KLALLAM TRIE HEALING CAMPUS US-101 & 8TH AVE

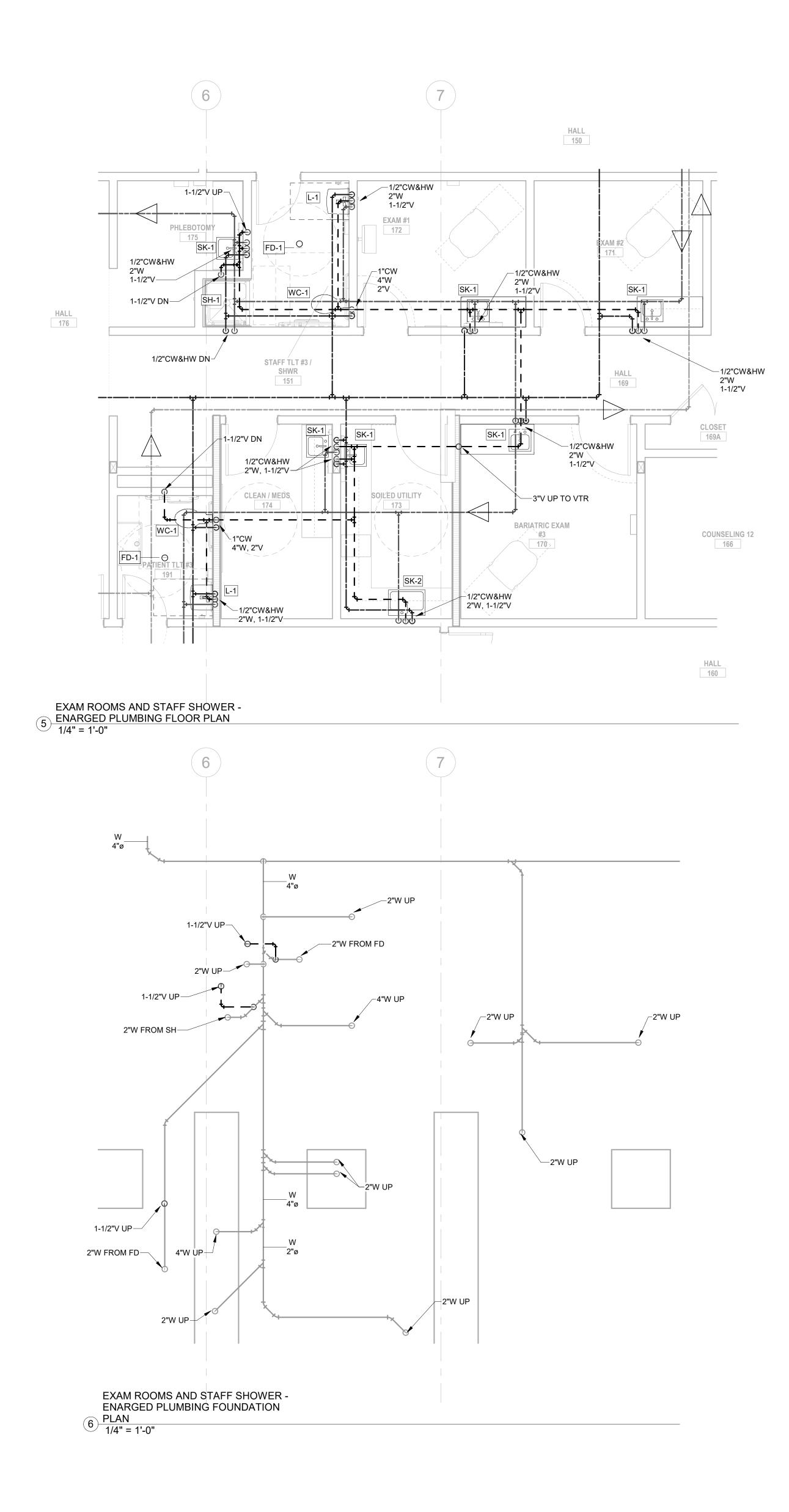


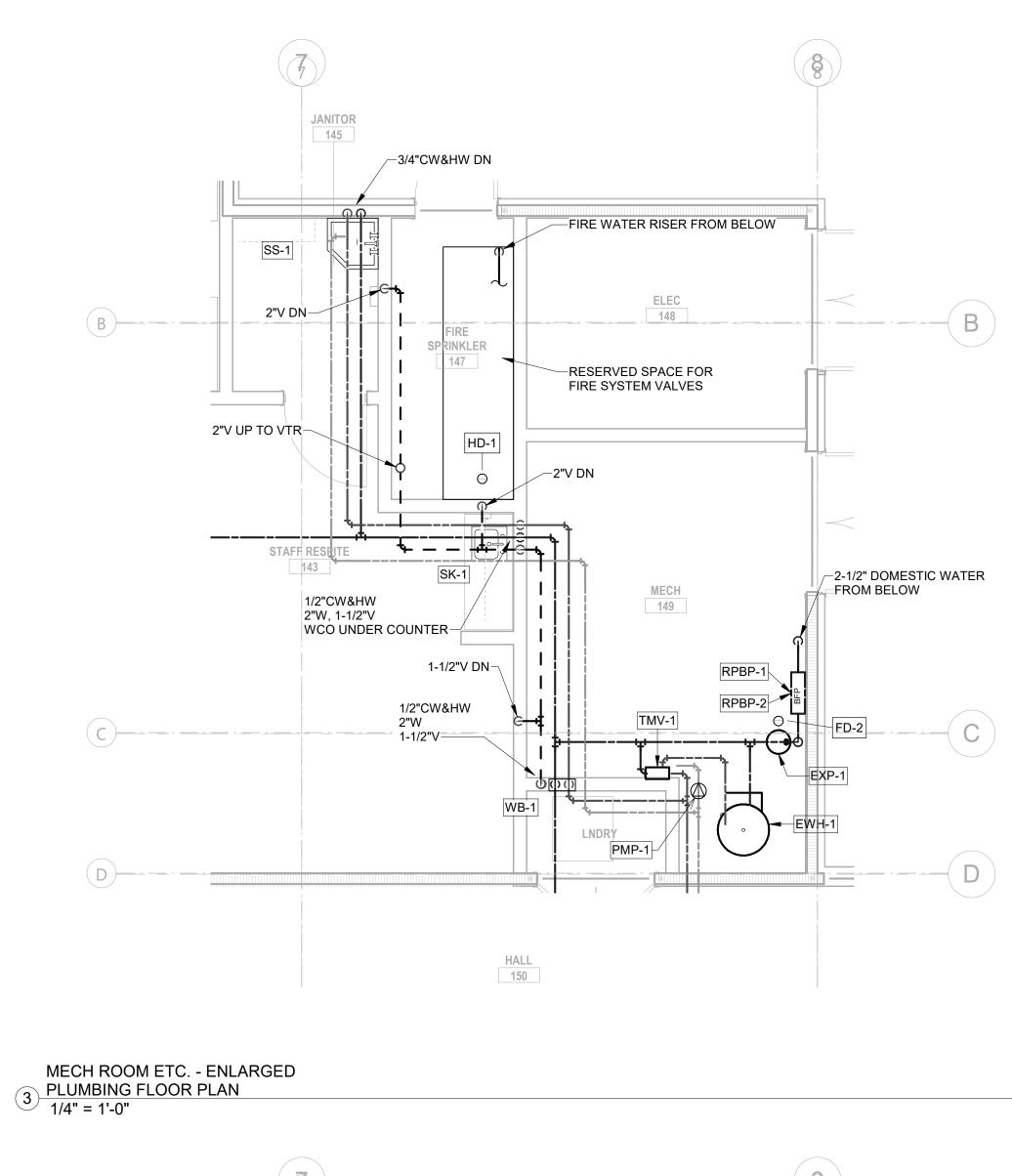
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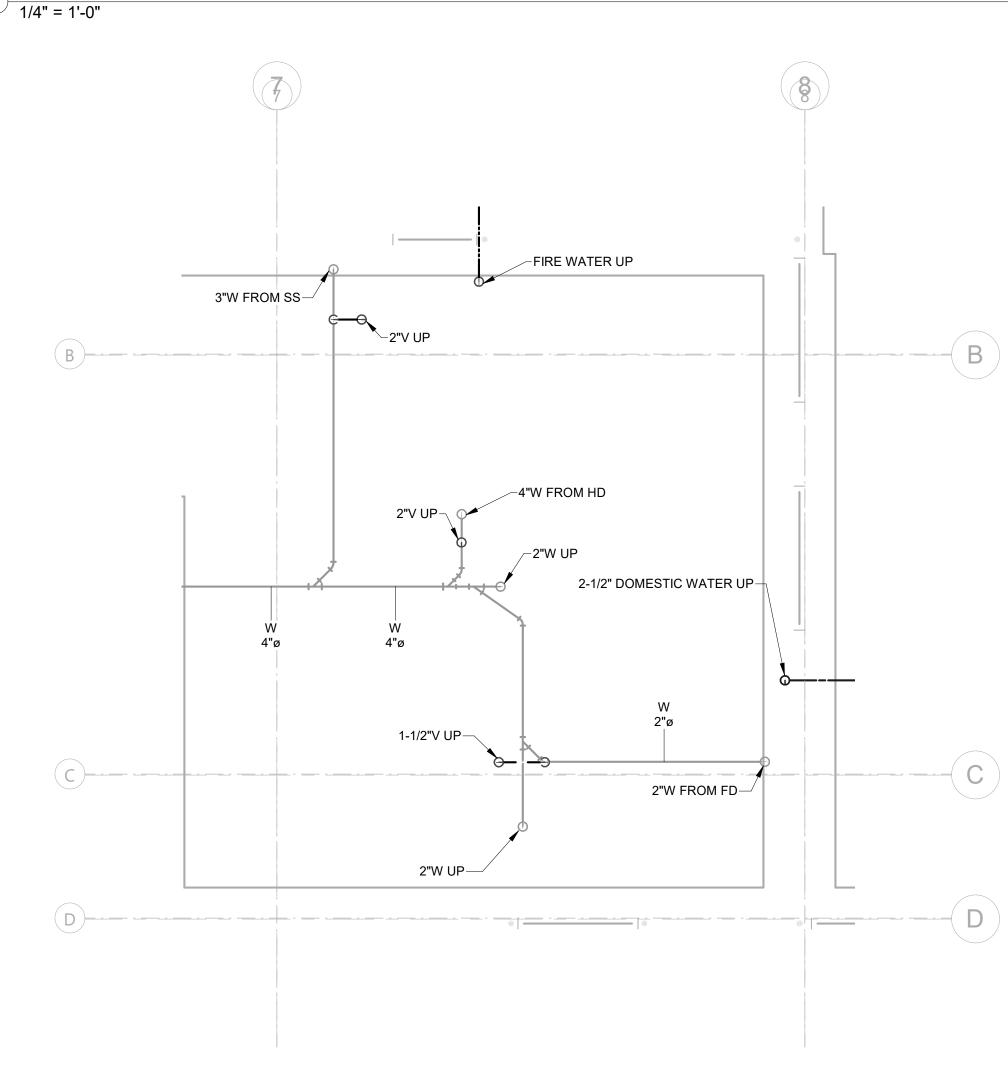
PLUMBING ROOF PLAN

P1.02

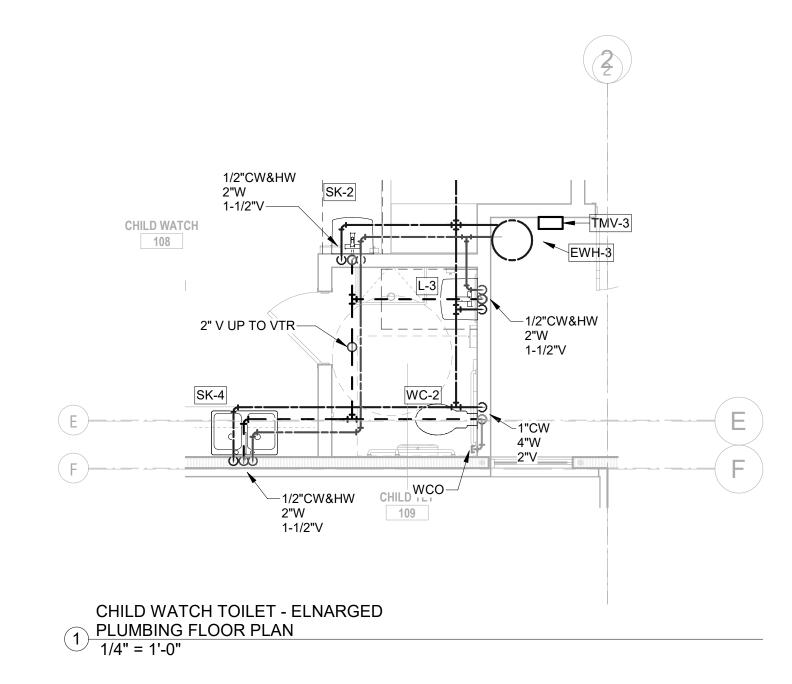
1 PLUMBING - ROOF PLAN 1/8" = 1'-0"

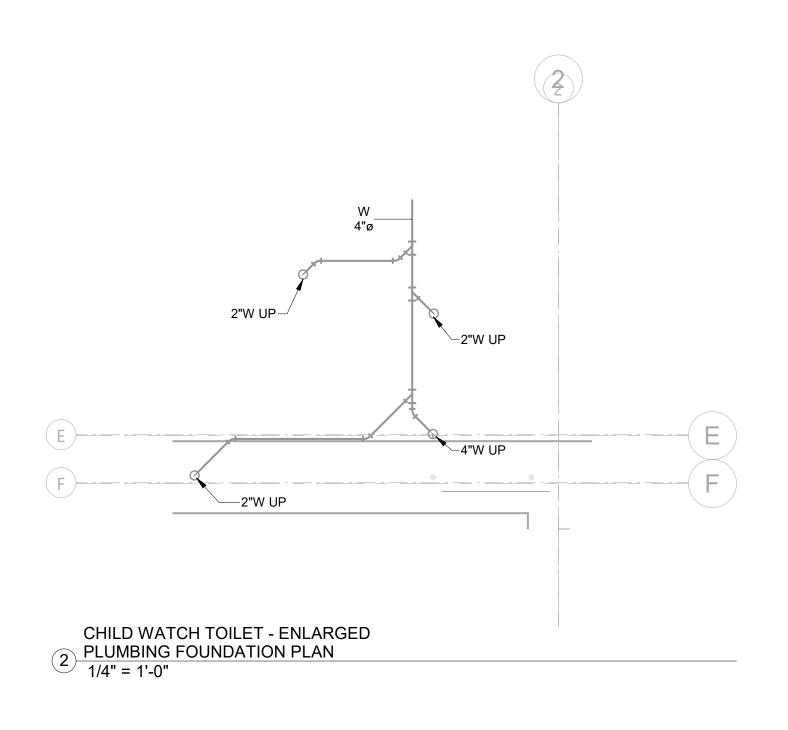






MECH ROOM ETC. - ELNARGED
PLUMBING FOUNDATION PLAN
1/4" = 1'-0"





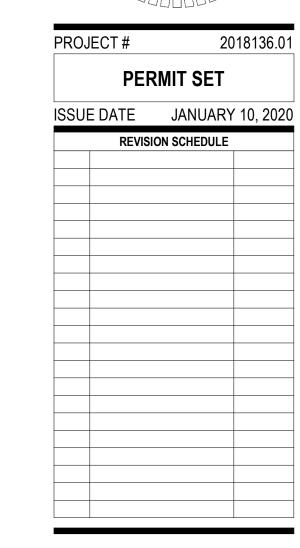
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OWN S'KLALLAM TRIBE
EALING CAMPUS

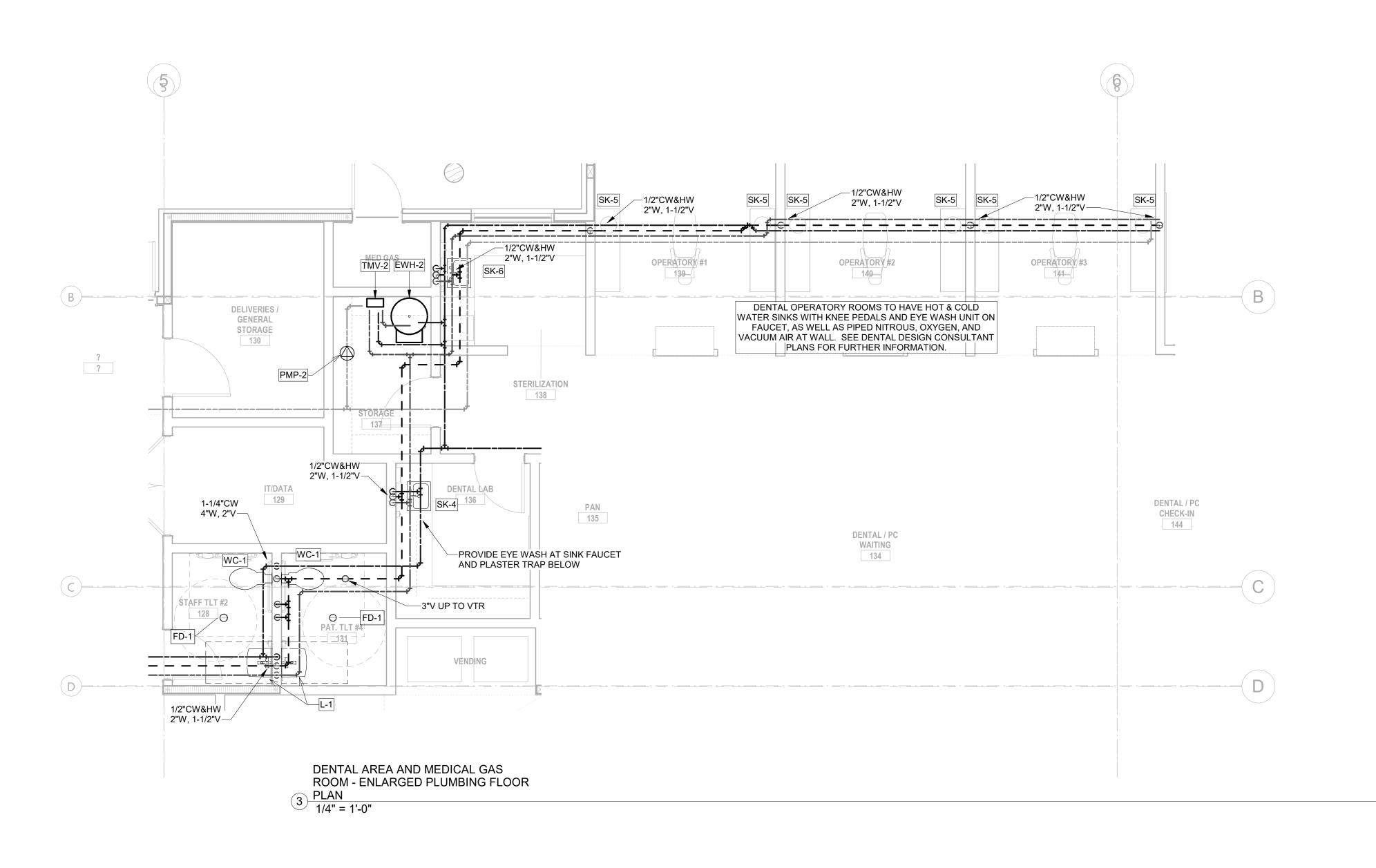
LIS 101 8 STU AVE

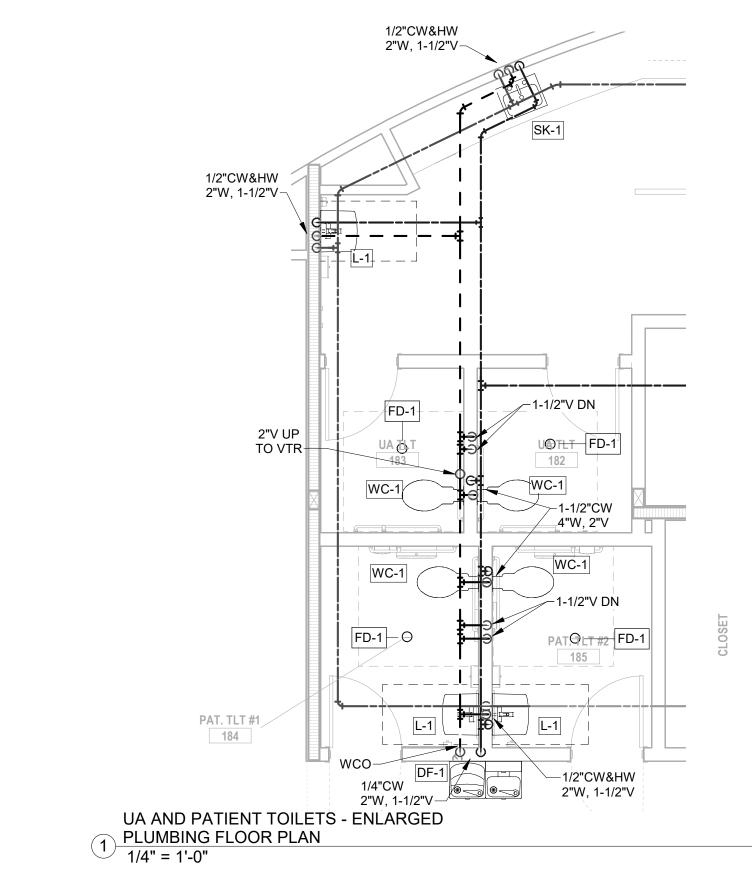


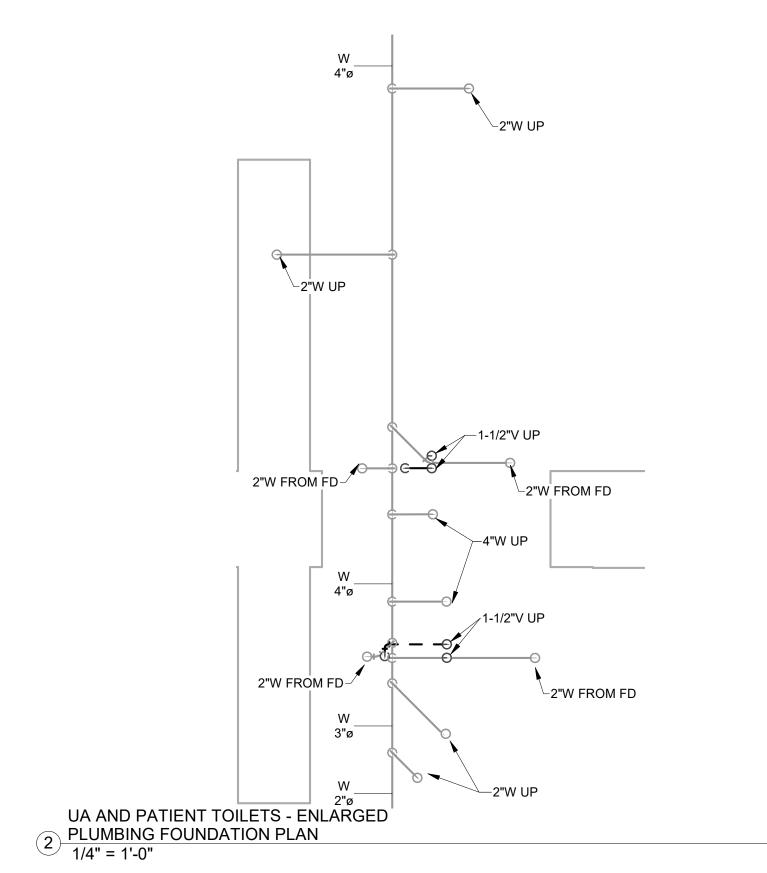


PLUMBING ENLARGED PLANS

P2.01







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PLUMBING ENLARGED PLANS

P2.02

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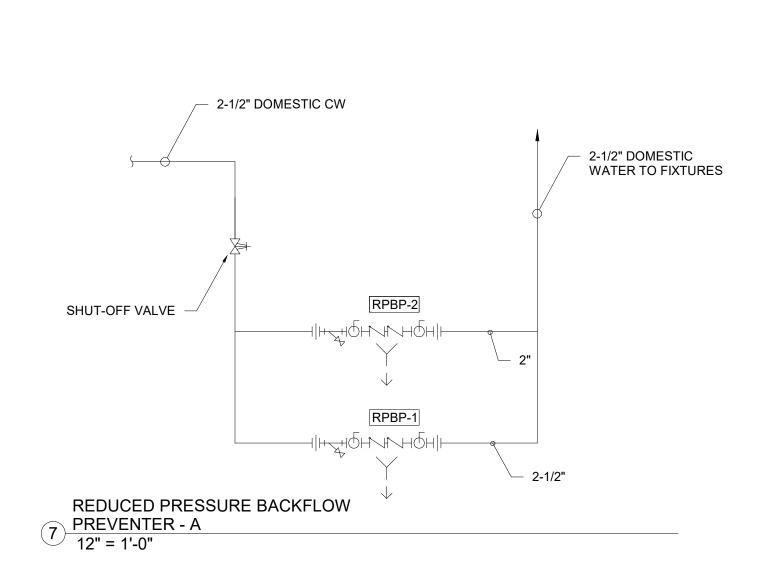
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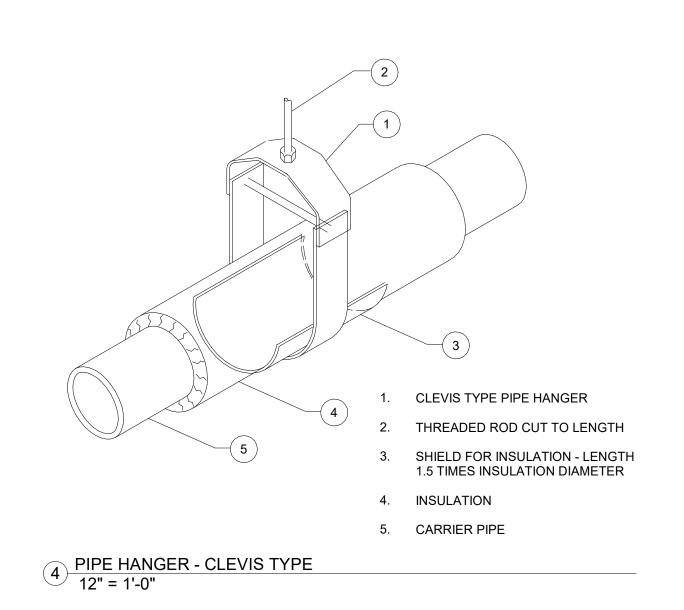


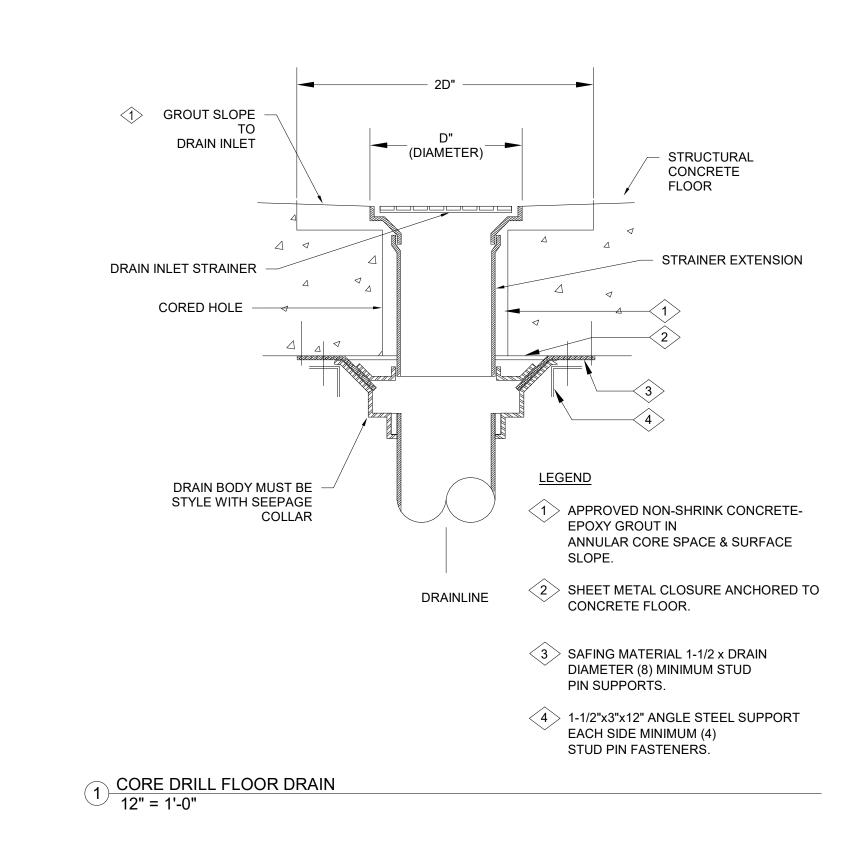
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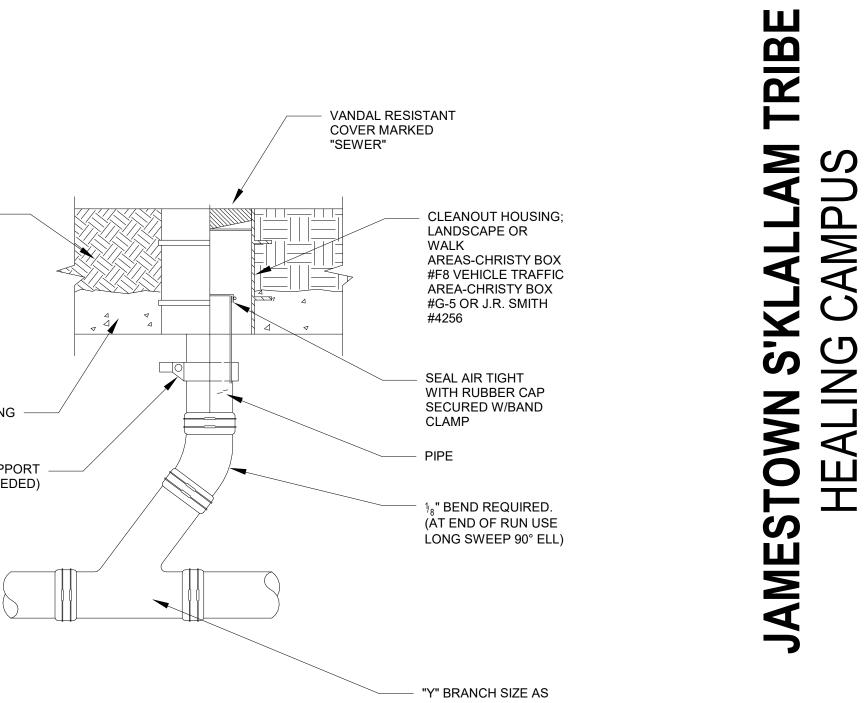
PLUMBING WASTE RISER DIAGRAM

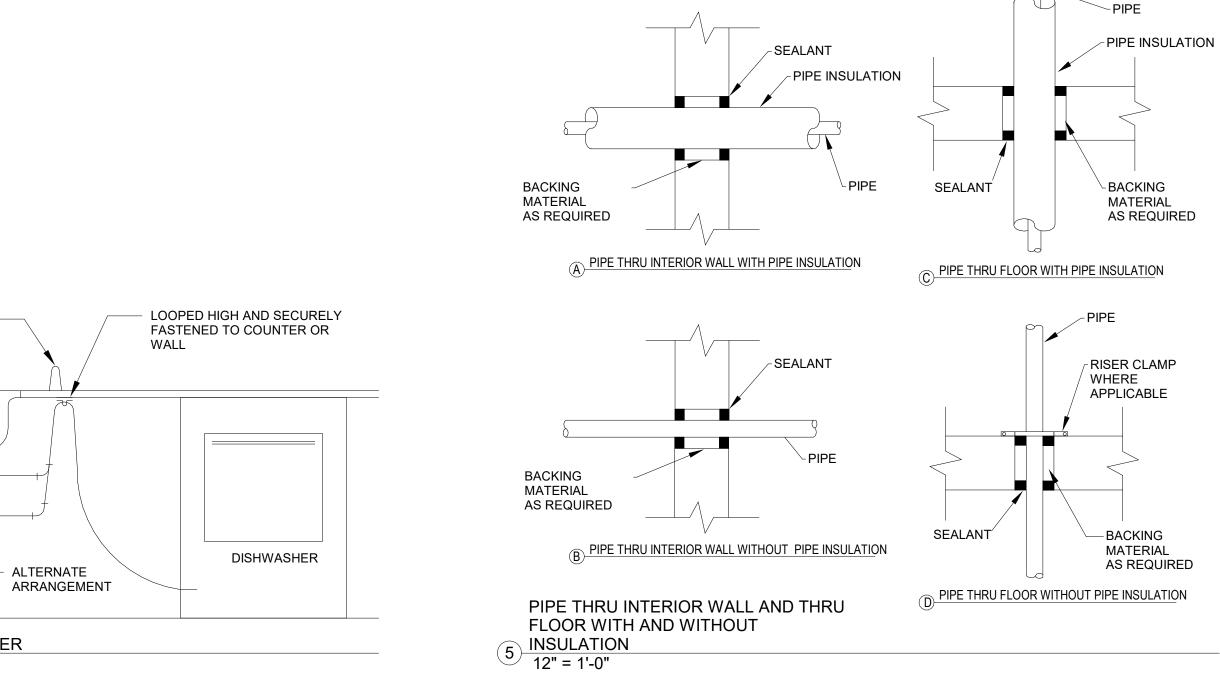
P3.02

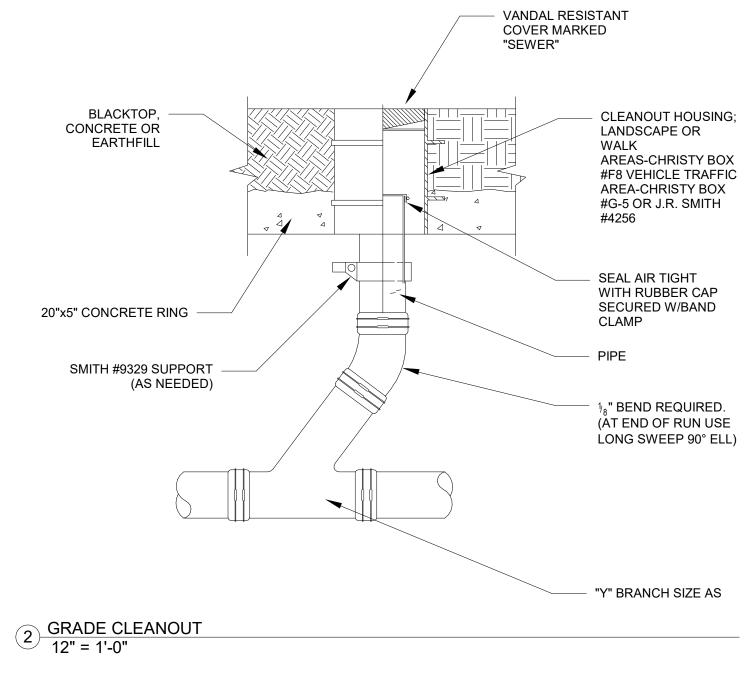


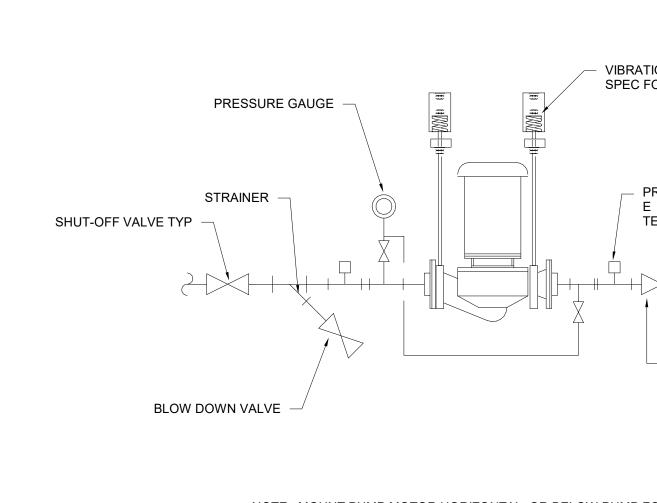


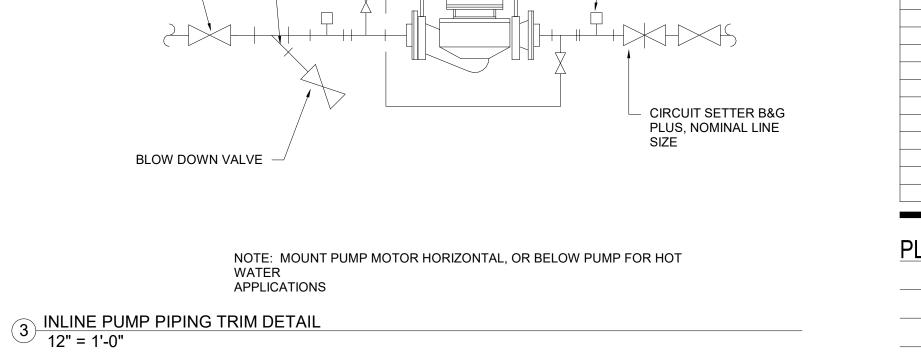


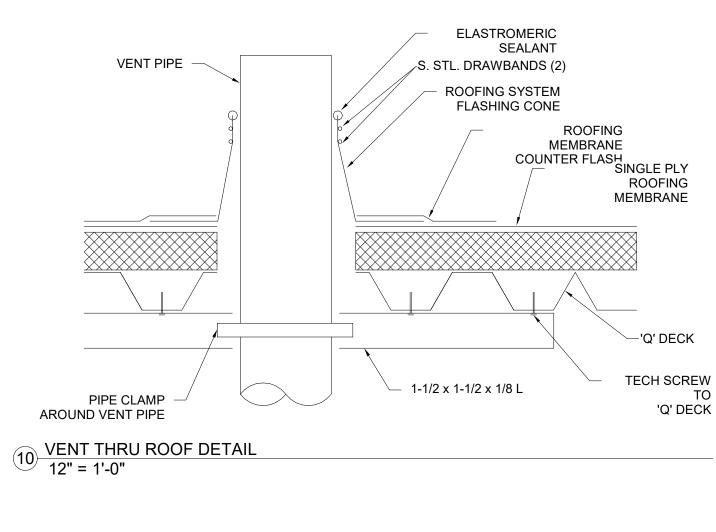


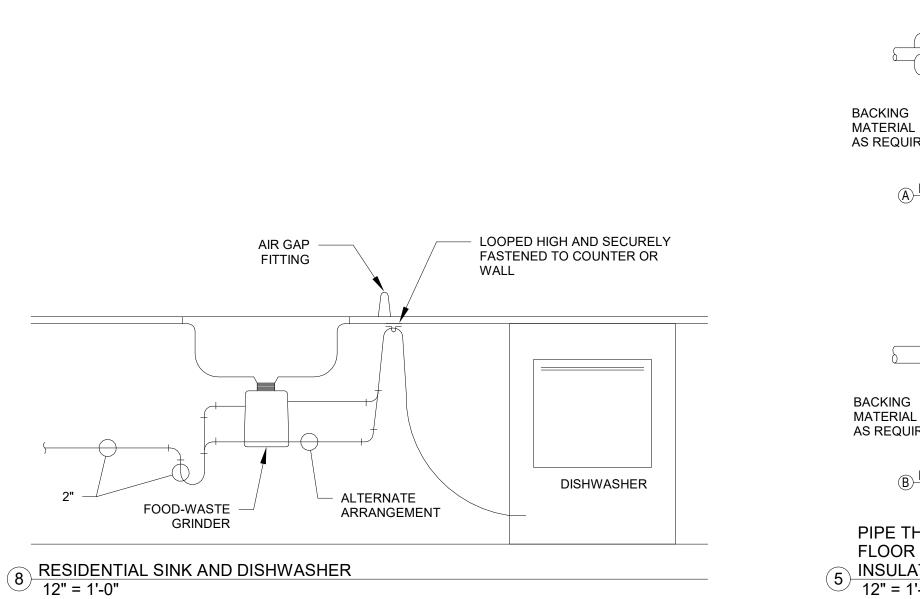


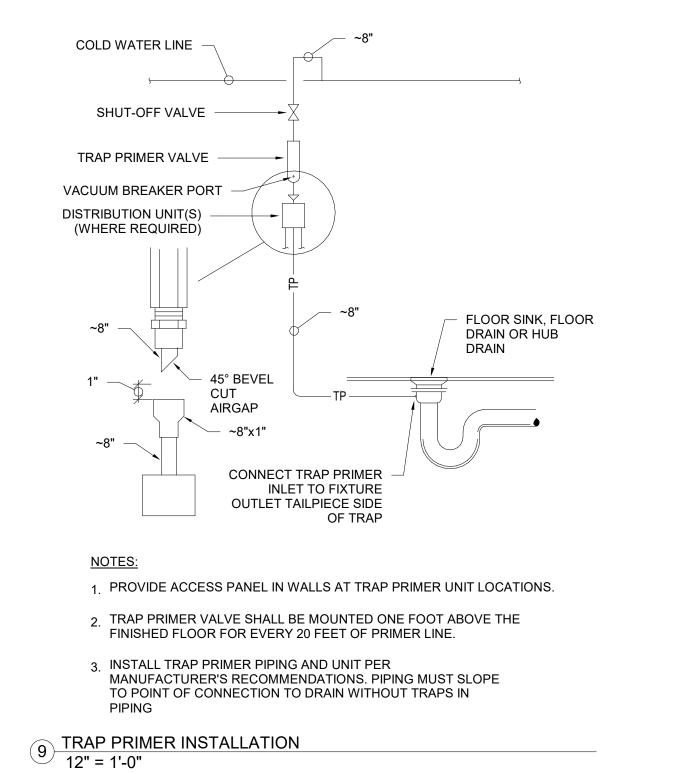


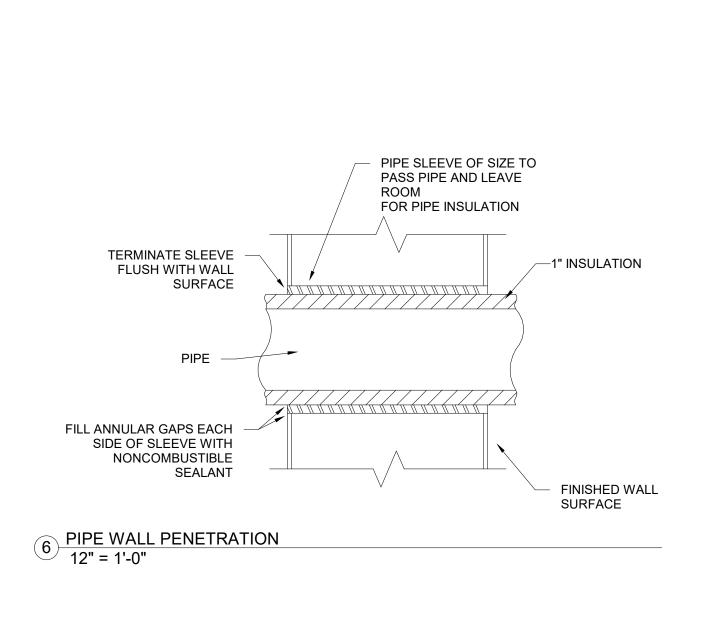


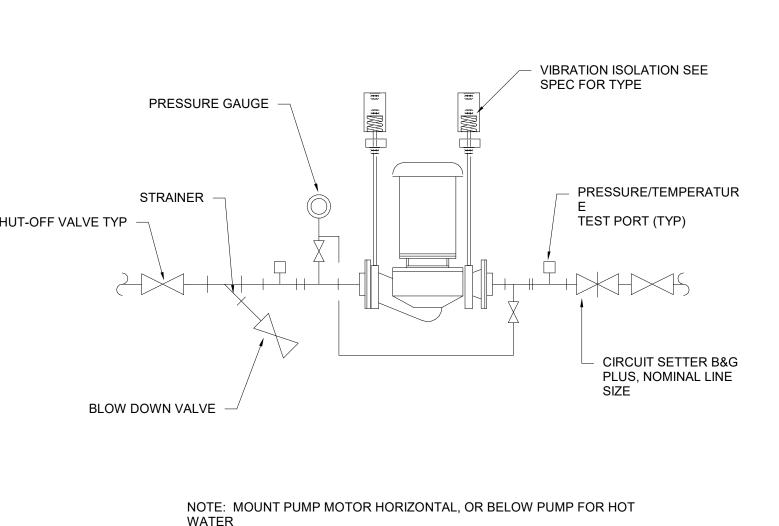


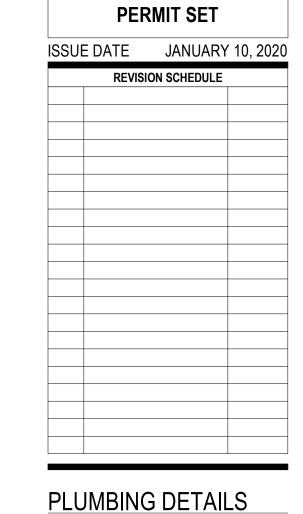












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